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Maintenance

**AIRCRAFT FUEL TANK EMERGENCY
EVACUATION RESPONSE PLAN**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction establishes procedures for emergency response to a Fuel Cell notification and evacuation of personnel from an aircraft fuel tank.

1. Key Assumptions:

- 1.1. Fuel system maintenance and the repair of aircraft fuel tanks is of primary importance to all military commanders, flight crews, and aircraft maintenance personnel. Fuel leaks can be critical safety hazards and affect the operational readiness and mission capability of all aircraft.
- 1.2. Emergency response during non-duty hours.
- 1.3. No fire is associated with this emergency response.
- 1.4. There are personnel in the fuel tank.
- 1.5. One or more personnel are incapacitated/trapped in the fuel tank/cell.
- 1.6. Incapacitated/trapped personnel need immediate medical attention.

2. Situation:

- 2.1. General: Most aircraft now in service use fuel bladder cells, integral fuel tanks, or a combination of both. These tanks are normally free of serious fuel leaks; however, there are times when fuel leaks do occur and components fail requiring personnel to perform in-tank maintenance. Typically, in-tank maintenance is performed with a three-man team. The roles of these three personnel are as follows:
 - 2.1.1. One person is the tank entrant actually performing the maintenance. For exercise purposes, this is the potential victim.
 - 2.1.2. Attendant: Stationed at the tank opening as safety monitor whenever a person is in a fuel tank performing maintenance.

2.1.3. Equipment Monitor/Runner: Stationed on the ground to monitor equipment and act as fire-guard.

3. Mission: To provide quick emergency response and save lives.

4. Execution:

4.1. Concept of Operation: This plan establishes procedures to cope with an emergency tank situation during open fuel tank maintenance.

4.2. Task: The following agencies will comply as follows:

4.2.1. In the event that a person(s) becomes incapacitated in a fuel tank, the 43 AW Maintenance Fuel System Attendant standing by during in-tank maintenance will:

4.2.1.1. Notify the Equipment Monitor/Runner to begin emergency notification/action procedures.

4.2.1.2. Don air supplied full-face respirator.

4.2.1.3. Take additional air supplied full-face respirator into tank.

4.2.1.4. Enter fuel tank once runner assumes the duties of attendant.

4.2.1.5. Ensure victim(s) has a serviceable respirator.

4.2.1.6. Attempt to rescue victim(s) immediately.

4.2.1.7. Provide Buddy-Care/CPR as required.

4.2.1.8. If victim(s) is conscious, escort outside to fresh air area.

4.2.2. The 43 MXS Fuel Maintenance Equipment Monitor/Runner will:

4.2.2.1. Activate hangar alarm if equipped

4.2.2.2. Notify Fire Department /MACC via telephone, emergency hotline, or radio.

4.2.2.3. Provide name/rank, building number, number of victims, type aircraft involved, and what tank victim(s) is in.

4.2.2.4. Notify Shift Supervisor/Dispatcher of situation.

4.2.2.5. Open facility doors on flightline side to improve ventilation and ease emergency access.

4.2.2.6. Return to assist MXS fuel maintenance attendant in removal of victim(s).

4.2.2.7. Clear path on the aircraft wing if applicable.

4.2.3. The 43 MXS Fuel Systems Maintenance Supervisor/Dispatcher will:

4.2.3.1. Assign available Fuel Systems personnel as additional Equipment Monitor/Runner as needed.

4.2.3.2. Establish Entry Control Point (ECP) at all locations in-tank maintenance is to be accomplished at, to include compass rose and Romeo 11.

4.2.3.3. Brief rescue team(s) of hazards at emergency site upon arrival.

- 4.2.3.4. Direct rescue team(s) to emergency site.
- 4.2.3.5. Allow only authorized personnel into mishap area.
- 4.2.4. The 43 AW Fire Department Dispatcher will:
 - 4.2.4.1. Receive, record, and transmit information upon notification call from maintenance (fuel systems representative) via nose dock emergency phone. If not available, then notify MACC by radio.
 - 4.2.4.2. Activate station alarm bell.
 - 4.2.4.3. Notify medical services personnel.
 - 4.2.4.4. Notify Command Post and Security Forces.
 - 4.2.4.5. Request permission from tower to cross the active runway.
 - 4.2.4.6. Keep command post informed of situation until emergency is terminated.
 - 4.2.4.7. Complete notification as required.
- 4.2.5. The 43 AW Fire Department Response Crew will:
 - 4.2.5.1. Report to Fuel Systems supervisor at ECP on flightline side of facility or at the ECP if at an outside repair area.
 - 4.2.5.2. Senior Fire Official will coordinate with Fuel Systems supervisor.
 - 4.2.5.3. Request secondary crash net be activated as required.
 - 4.2.5.4. Extract the victims to the ambulance.
- 4.2.6. The 43d Medical Personnel/Ambulance will:
 - 4.2.6.1. Receive call from Fire Department dispatcher.
 - 4.2.6.2. Notify medical service response crew.
 - 4.2.6.3. Make internal notification as required.
- 4.2.7. The 43d Medical Squadron (MDOS) Mutual Aid Option (only when clinic ambulance is not available) will:
 - 4.2.7.1. Notify Womack Army Hospital. If not available, notify Cumberland County Hospital.
 - 4.2.7.2. Alert mutual aid of escort and direct them to report to Senior Fire/Senior Fuel Systems Official at emergency site.
 - 4.2.7.3. Notify Reilly Road gate guard.
 - 4.2.7.4. Notify Security Forces Desk Sergeant for escort in/out of emergency site.
- 4.2.8. The 43d Medical Response Crew will:
 - 4.2.8.1. Arrive at emergency site and report to Senior Fire/Fuel Systems supervisor.
 - 4.2.8.2. Standby for delivery of victim(s) from fire department response crew.
 - 4.2.8.3. Receive victim outside of building and depart emergency site.
 - 4.2.8.4. Notify tower to cross-runway if applicable.

4.2.9. The 43 SFS Desk Sergeant will:

- 4.2.9.1. Receive call from the Fire Department dispatcher.
- 4.2.9.2. Dispatch security forces unit to emergency site.
- 4.2.9.3. Inform security forces unit to report to Senior Fire/ Fuel Systems supervisor.
- 4.2.9.4. Inform security forces unit to provide traffic control at emergency site.

4.2.10. The 43 SFS Response Unit will:

- 4.2.10.1. Respond (upon notification from Desk Sergeant).
- 4.2.10.2. Arrive at emergency site and report to Senior Fire/ Fuel Systems supervisor.
- 4.2.10.3. Provide traffic control at emergency site.

4.2.11. The 43 AW Command Post will:

- 4.2.11.1. Receive call from Fire Department dispatcher.
- 4.2.11.2. Notify Wing Safety.
- 4.2.11.3. Make internal notification.
- 4.2.11.4. Monitor.

4.2.12. The 43d Base Operation will:

- 4.2.12.1. Activate secondary crash net as required

4.2.13. The 43 AW Safety will:

- 4.2.13.1. Receive notification from Command Post.
- 4.2.13.2. Dispatch a representative to mishap site.
- 4.2.13.3. Upon arrival report to Senior Fire/Fuel Systems supervisor.

5. Logistics and Administration:

5.1. Logistics: Tasked units will predetermine the logistical supplies needed to support this plan and take action to procure those items.

5.2. Administration: The 43d Logistics Group Commander will be responsible for the preparation and maintenance of this plan. The 43d Maintenance Squadron Fuel System Repair Section will accomplish any changes made to this plan.

5.3. Fuel Systems section chief will schedule annual exercises IAW T.O. 1-1-3 to allow all agencies involved to practice and ensure a safe and expedient evacuation.

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Commander